

## ABSTRACT OF THE DISCLOSURE

An objective optical element of an optical pickup apparatus has a magnification  $m_1$  satisfying the following formula for a light flux of the wavelength  $\lambda_1$ :  $-1/7 \leq m_1 \leq -1/25$  and  $|m_1| < |M_1|$ , where  $M_1$  is an optical system magnification from the first light source to the first optical information recording medium for a light flux of the wavelength  $\lambda_1$ . The objective optical element comprises a common region and an exclusive region. The exclusive region includes an exclusive diffractive structure having a function to suppress an increase of spherical aberration due to a raise of atmospheric temperature. A light flux of a wavelength  $\lambda_2$  having passed through the exclusive diffractive structure intersects with the optical axis at a position different from the position of the converged light spot formed on the information recording plane of the second optical information recording medium.